

# POSITIVE ENERGY BLOCKS

At least three connected neighbouring buildings producing on a yearly basis more primary energy than what they use.

To launch by 2020 the construction of 100 PEBs throughout EU and neighbouring countries, with at least 1 PEB per EU Member State. Of this figure, 50% of the PEBs should be in cities with <100,000 inhabitants.

## WHAT?

A Positive Energy Block - PEB is a group of at least three connected neighbouring buildings producing on a yearly basis more primary energy than what they use.

These buildings must serve different purposes (housing, offices, commercial spaces...) to take advantage of complementary energy consumption curves and optimise local renewable energy production, consumption and storage.

## WHY?

This adaptable and integrated Initiative aims to represent the "seeds" for an urban regeneration for cities of all sizes and regions of Europe. PEBs, mainly focussed on energy, can also help with taking-up bioclimatic architecture, advanced materials, information and communication

Technologies (ICT) with on-site renewable energy production (solar, geothermal, biofuels locally produced used for cogeneration...)

It will contribute to tackling Social, Climate/Environmental and Economic challenges by promoting citizen-oriented, sustainable solutions that will improve quality of life.

## WHO?

This Initiative will be led by representatives from Cities (supported by representatives from the construction sector), with PEBs being rolled-out on preferably central locations in cities.

Stakeholders with various backgrounds (companies, cities, consultancies, associations, research organisations) are already participating to the initiative.

## HOW?

An integrated approach towards PEBs may be taken: focusing on mixed-use buildings (new built and retrofitted) with a strong emphasis on ICT solutions and involvement of both private and public sector stakeholders.

Financing may come from public and private investment by banks, industry, national funding schemes or EU schemes such as EIB, ERDF, Horizon 2020 (ensuring a due link with regional Smart Specialisation Strategies).

Strong emphasis is put on sustainable business models and innovative financing like Energy Performance Contracting (EPC), mutualisation of services between buildings.



## ROADMAP

**JAN - DEC 2017:**  
Identification of participating cities and other interested stakeholders (extendable process)

**SEP - DEC 2018:**  
Launch of tenders for public parts and financial engineering of all projects

**JUN 2019 ONWARDS**  
Works phase

1

2

3

4

5

6

**JUL 2017 - JUN 2018:**  
Dialogue between interested parties to determinate ToRs of each Project

**JAN - JUN 2019:**  
Selection and approval of projects

**DEC 2020:**  
Official opening of the EU PEBNetwork



## MANAGEMENT TEAM

Paul Cartuyvels (AC Initiative Leader), Bouygues Europe  
Orsola Mautone, European Commission - DG ENER  
Dario Colozza (AC manager), PwC



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European Innovation Partnership on Smart Cities and Communities